

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claims 1-11 (canceled)

Claim 12 (currently amended) A biochip reader ~~that irradiates excitation light from~~
comprising:

a plurality of microlenses;

a light source irradiating an excitation light to a plurality of cells of ~~[[the]]~~ a biochip
respectively via ~~[[a]]~~ said plurality of microlenses; and ~~reads~~

a detector reading fluorescence image information from genes ~~to which~~ attached with
fluorescent substances ~~are stuck and which are~~ poured into ~~[[a]]~~ said plurality of cells, ~~with a~~
~~detector;~~

wherein said light source is configured to generate the excitation light composed of a part
of strong light intensity and another part of weak light intensity, and

wherein on said biochip, genes of each cell are arranged so that genes are expressed less at
the strong light intensity part and are expressed more at the weak light intensity part.

Claim 13 (currently amended): A biochip reader in accordance with claim 12, wherein said light source is configured to generate the excitation light that gives a light intensity distribution in which the intensity is strong at its center part and weak at the peripheral part.

Claim 14 (currently amended): A biochip reader in accordance with claim 12 or claim 13, ~~wherein~~ further comprising a mask, arranged between said light source and the biochip, that cuts or attenuates part of the excitation light ~~is arranged between said light source and said sample.~~

Claim 15 (currently amended): A biochip reader in accordance with claim 12 or 13, ~~wherein~~ further comprising a zoom mechanism for changing the light intensity distribution of the excitation light ~~from said light source~~ corresponding to expression of genes on said biochip, ~~is~~ provided.

Claim 16 (canceled).